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**UNITED STATES PATENT AND TRADEMARK OFFICE**

MAR 26 2002

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/037,609	01/02/2002	Edward L. Hepler	1-2-227.IUS

CONFIRMATION NO. 6345

24374  
**VOLPE AND KOENIG, PC**  
 DEPT ICC  
 SUITE 400, ONE PENN CENTER  
 1617 JOHN F. KENNEDY BOULEVARD  
 PHILADELPHIA, PA 19103

RECEIVED

AM/PM

FEB 13 2002

FORMALITIES LETTER



\*OC000000007447038\*

**VOLPE & KOENIG, P.C.**

Date Mailed: 02/08/2002

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION**

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- o The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- o To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- o **The balance due by applicant is \$ 130.**

*A copy of this notice **MUST** be returned with the reply.*

*Customer Service Center*

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



#3

## PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## In the PATENT APPLICATION of:

Hepler et al.

Application No.: 10/037,609

Confirmation No.: 6345

Filed: January 2, 2002

For: PIPELINED ARCHITECTURE FOR  
MAXIMUM A POSTERIOR (MAP)  
DECODERS

Group: 2121

Examiner: Not Yet Known

Our File: I-2-0227.1US

Date: March 18, 2002

COMMUNICATION IN RESPONSE TO  
NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

## BOX MISSING PARTS

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Notice to File Missing Parts of Nonprovisional Application mailed from the Office on February 8, 2002, the following are enclosed:

1. Copy of Notice to File Missing Parts of Nonprovisional Application; and
2. Declaration for Utility or Design Patent Application.

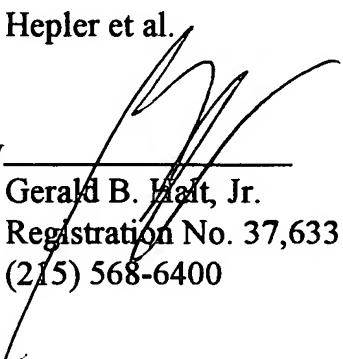
**Applicant: Hepler et al.  
Application No.: 10/037,609**

Please charge the surcharge fee of \$130.00 to the Deposit Account of InterDigital Communications Corporation, Deposit Account No. 09-0435 as indicated on the Fee Transmittal Sheet.

Allowance of the claims is respectfully requested.

Respectfully submitted,

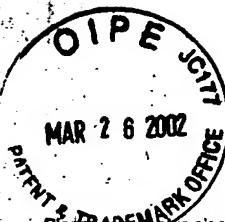
**Hepler et al.**

By \_\_\_\_\_  
  
Gerald B. Halt, Jr.  
Registration No. 37,633  
(215) 568-6400

Volpe and Koenig, P.C.  
Suite 400, One Penn Center  
1617 John F. Kennedy Boulevard  
Philadelphia, PA 19103

GBH/ns  
Enclosures

MAR 26 2002



Please place plus sign (+) inside this box → +

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

(to be used for all correspondence after Initial filing)

Total Number of Pages In This Submission

10

Application Number	10/037,609
Filing Date	January 2, 2002
First Named Inventor	Hepler et al
Group Art Unit	2121
Examiner Name	Not Yet Known
Attorney Docket Number	I-2-0227-1US

**ENCLOSURES (check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Copy of Notice to File Missing Parts of Nonprovisional Application; and One Original Declaration for Utility or Design Patent Application
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	
<input checked="" type="checkbox"/> Response to Missing Parts/ Incomplete Application	<input type="checkbox"/> Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	GERALD B. HALT, JR. Volpe and Koenig, P.C.	Reg. No. 37,633
Signature		
Date	3/18/02	

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Office of Initial Patent Examination, Customer Service Center, Washington, DC 20231 on this date:

3/18/02

Typed or printed name	GERALD B. HALT, JR.
Signature	
Date	3/18/02

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

MAR 26 2002

Volpe and Koenig Revision of PTO/SB/17 (10-01)

Approved for use through 10/31/2002, OMB 0651-0032

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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 130)

## Complete If Known

Application Number	10/037,609
Filing Date	January 2, 2002
First Named Inventor	Hepler et al.
Examiner Name	Not Yet Known
Group Art Unit	2121
Attorney Docket No.	I-2-0227.1US

## METHOD OF PAYMENT

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 09-0435  
 Deposit Account Name: InterDigital Comm. Corp.

Charge any Deficiencies or Credit any Overpayment in the Total Fees Associated With This Communication

Applicant claims small entity status.  
See 37 CFR 1.27

## 2. Payment Enclosed:

Check  Credit card  Money Order  Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
101	740	201 370 Utility filing fee	
106	330	206 165 Design filing fee	
107	510	207 255 Plant filing fee	
108	740	208 370 Reissue filing fee	
114	160	214 80 Provisional filing fee	

SUBTOTAL (1) (\$ 0)

## 2. EXTRA CLAIM FEES

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description
103	18	203 9 Claims in excess of 20
102	84	202 42 Independent claims in excess of 3
104	280	204 140 Multiple dependent claim, if not paid
109	84	209 42 ** Reissue independent claims over original patent
110	18	210 9 ** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0)

\*\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105	130	205 65 Surcharge - late filing fee or oath	130
127	50	227 25 Surcharge - late provisional filing fee or cover sheet	
139	130	139 130 Non-English specification	
147	2,520	147 2,520 For filing a request for ex parte reexamination	
112	920*	112 920* Requesting publication of SIR prior to Examiner action	
113	1,840*	113 1,840* Requesting publication of SIR after Examiner action	
115	110	215 55 Extension for reply within first month	
116	400	216 200 Extension for reply within second month	
117	920	217 460 Extension for reply within third month	
118	1,440	218 720 Extension for reply within fourth month	
128	1,960	228 980 Extension for reply within fifth month	
119	320	219 160 Notice of Appeal	
120	320	220 160 Filing a brief in support of an appeal	
121	280	221 140 Request for oral hearing	
138	1,510	138 1,510 Petition to institute a public use proceeding	
140	110	240 55 Petition to revive - unavoidable	
141	1,280	241 640 Petition to revive - unintentional	
142	1,280	242 640 Utility issue fee (or reissue)	
143	460	243 230 Design issue fee	
144	620	244 310 Plant issue fee	
122	130	122 130 Petitions to the Commissioner	
123	50	123 50 Processing fee under 37 CFR 1.17(q)	
126	180	126 180 Submission of Information Disclosure Stmt	
581	40	581 40 Recording each patent assignment per property (times number of properties)	
146	740	246 370 Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249 370 For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279 370 Request for Continued Examination (RCE)	
169	900	169 900 Request for expedited examination of a design application	
Other fee (specify) _____			

\*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$ 130)

## SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	GERALD B. HALT, JR.	Registration No. (Attorney/Agent)	37,633	Telephone	215-568-6400
Signature				Date	3/18/02

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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